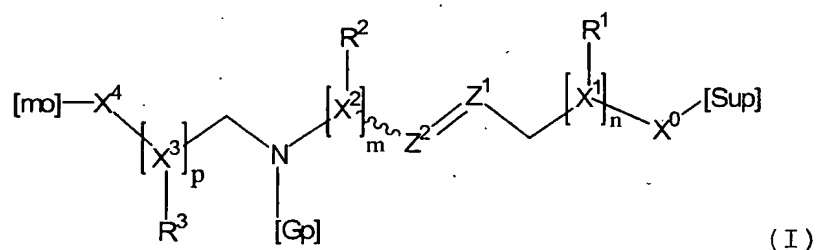


## ABSTRACT

The present invention relates to a molecular spacer arm, to a process for attachment of a molecular unit to a solid support, and also to the use of this  
 5 spacer arm on analytical chips comprising molecules or biomolecules. The spacer arm has the formula (I):



in which  $\text{X}^0, \text{X}^4 = \text{C}, \text{O}, \text{S}, \text{Se}, \text{N}, \text{P}, \text{As}$ ;  $\text{X}^{1-3} = \text{C}, \text{O}, \text{N}, \text{S}, \text{Se}, \text{P}, \text{As}$ , or  $\text{C}_{1-6}$  aryl or heteroaryl;  $\text{Z}^{1-2} = \text{C-R}$ ,  
 10  $\text{Si-R}$ ,  $\text{N}$ ,  $\text{P}$  and  $\text{As}$ , where  $\text{R} = \text{C}_{1-6}$  alkyl;  $\text{R}^{1-3} = \text{H}$ , or  $\text{C}_{1-6}$  alkyl, aryl or heteroaryl;  $[\text{Gp}] =$  protective group for  $>\text{N}$ ;  $n, m$  and  $p =$  integers  $\geq 1$ ;  $[\text{Sup}] = \text{H}$  or a silanized solid support; and  $[\text{mo}] = \text{H}$  or a molecular unit  
 15 intended to be covalently attached to said silanized solid support by means of said spacer arm.